Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – April/May – 2017**

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| --- | --- | --- | --- |
| **Code :** | **14ME2035** | **Duration :** | **3 hrs** |
| **Sub. Name :** | **INDUSTRIAL SAFETY ENGINEERING** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Q. No | Sub Div. | Questions | Course  Outcome | Marks |
| 1. | a. | Define the term OSHA. | CO1 | 2 |
| b. | List the factors to be considered during identifying the causes of injury. | CO1 | 2 |
| c. | Explain the various responsibilities of principals in safety management. | CO1 | 16 |
| (OR) | | | | |
| 2. | a. | Define the term “Trauma”. | CO1 | 2 |
| b. | Write two difference between accidents vs injuries. | CO1 | 2 |
| c. | Explain the various steps involved in Industrial safety efforts that have been referred to as the people safety program. | CO1 | 16 |
| 3. | a. | Define the function of safety trip control. | CO2 | 2 |
|  | b. | State the advantages of restraint device. | CO2 | 2 |
|  | c. | List out the various methods used for safeguarding machines in an industry. | CO2 | 16 |
| (OR) | | | | |
| 4. |  | Explain in detail about safety requirements recommended in an industry for the use of power press by a safety department. | CO2 | 20 |
| 5. | a. | Define the term MSDS. | CO2 | 2 |
|  | b. | List out some of the common electrical hazards faced by an worker. | CO2 | 2 |
|  | c. | In detail explain the various Safety requirements recommended in an chemical industry for handling chemicals. | CO2 | 16 |
| (OR) | | | | |
| 6. |  | Explain the various safety principles to be followed during gas welding process and name some protective equipments used. | CO3 | 20 |
| 7. | a. | Name the three health hazards undergone by labor in paint shop. | CO3 | 2 |
|  | b. | Mention any two Problem solving skills of the furnace operator. | CO3 | 2 |
|  | c. | Enumerate the safety responsibility to be followed in heat treatment process. | CO3 | 16 |
| (OR) | | | | |
| 8. | a. | List any two safety principles to be followed in paint shop. | CO3 | 4 |
|  | b. | Explain the various safety principles to be followed in sand and shot blasting process. | CO3 | 16 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Enumerete the various safety principles to be followed during electroplating process. | CO3 | 10 |
|  | b. | Explain the different safety precautions followed during hydro testing. | CO3 | 10 |

ALL THE BEST